TECHNOLOGY

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- Standards Alignment: April 2009
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Objectives aligned to ISTE (International Society for Technology in Education)

FORWARD

OUR EDUCATIONAL SYSTEM MUST PRODUCE TECHNOLOGY-CAPABLE LEARNERS

To live, learn, and work successfully in an increasingly complex and information-rich society, students and teachers must use technology effectively. Within a sound educational setting, technology can enable students to become:

- *Capable information technology users*
- *Information seekers, analyzers, and evaluators*
- *Problem solvers and decision makers*
- *Creative and effective users of productivity tools*
- *Communicators, collaborators, publishers, and producers*
- *Informed, responsible and contributing citizens*

Through the ongoing use of technology in the schooling process, students are empowered to important technology capabilities. The key individual in helping students develop those capabilities is the classroom teacher. The teacher is responsible for establishing the classroom environment and preparing the learning opportunities that facilitate students' use of technology to learn, communicate, and develop knowledge products. Consequently, it is critical that all classroom teachers are prepared to provide their students with these opportunities. Both professional development programs for teachers currently in the classroom and preparation programs for future teachers must provide technology-rich experiences.

To quote from the *Framework for 21st Century Learning*, "People in the 21st century live in a technology and media-driven environment, marked by access to an abundance of information, rapid changes in technology tools and the ability to collaborate and make individual contributions on an unprecedented scale. To be effective in the 21st century, citizens and workers must be able to exhibit a range of functional and critical thinking skills, such as, Information Literacy, Media Literacy, and ICT (Information, Communications, and Technology) Literacy. We believe this technology curriculum is a step towards these goals.

Fillmore Central Public Schools
K-12 Technology Curriculum
Standards and Indicators

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Technology Curriculum Standards and Indicators
Grades K – 2

1. BASIC OPERATIONS AND CONCEPTS 1. Use input devices (e.g., mouse, keyboard, remote control) and output devices (e.g., monitor, printer) to successfully operate computers, touch device, and other technologies. 2. Communicate about technology using developmentally appropriate and accurate terminology. 3. Use developmentally appropriate multimedia resources (e.g., interactive books, educational software) to support learning	**2. SOCIAL, ETHICAL, AND HUMAN ISSUES** 1. Work cooperatively and collaboratively with peers, and others when using technology in the classroom. 2. Practice responsible use of technology systems and software	**3. TECHNOLOGY PRODUCTIVITY TOOLS** 1. Use a variety of media and technology resources for directed and independent learning activities.
4. TECHNOLOGY COMMUNICATION TOOLS 1. Use technology resources for communication and illustration of thoughts, ideas, and stories.	**5. TECHNOLOGY RESEARCH TOOLS** 1. Use technology resources to gather information.	**6. TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS** 1. Use technology resources for problem solving.

Technology Curriculum Standards and Indicators
Grades 3 – 4

1. BASIC OPERATIONS AND CONCEPTS 1. Use keyboards and other common input and output devices efficiently and effectively	**2. SOCIAL, ETHICAL, AND HUMAN ISSUES** 1. Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide. 2. Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.	**3. TECHNOLOGY PRODUCTIVITY TOOLS** 1. Use general purpose productivity tools to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum. 2. Use technology tools (e.g., multimedia authoring, presentation and Web tools)for individual and collaborative writing, communication, and publishing activities to produce products for audiences.
4. TECHNOLOGY COMMUNICATION TOOLS 1. Use technology resources for communication and illustration of thoughts, ideas, and stories 2. Use online resources (e.g., e-mail, online discussions, Web environments) to participate in collaborative problem-solving activities for the purpose of developing solutions or products for a variety of audiences.	**5. TECHNOLOGY RESEARCH TOOLS** 1. Use technology resources (e.g. web tools videos, educational software) to access information, self-directed learning, and extended learning activities.	**6. TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS** 1. Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems. 2. Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.

Technology Curriculum Standards and Indicators
Grades 5 – 8

1. BASIC OPERATIONS AND CONCEPTS 1. Apply strategies for identifying and solving routine hardware and software problems that occur during everyday use. 2. Demonstrate an understanding of concepts underlying hardware, software, and connectivity.	**2. SOCIAL, ETHICAL, AND HUMAN ISSUES** 1. Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society. 2. Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse.	**3. TECHNOLOGY PRODUCTIVITY TOOLS** 1. Use content-specific tools, software, and simulations (e.g., environmental probes, graphing calculators, exploratory environments, Web tools) to support learning and research. 2. Apply productivity/multimedia tools and peripherals to support persona productivity, group collaboration, and learning throughout the curriculum.
4. TECHNOLOGY COMMUNICATION TOOLS 1. Design, develop, publish, and present products (e.g., Web pages, videotapes) using technology resources that demonstrate and communicate curriculum concepts to a variety of audiences. 2. Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate problems/issues, gather information, and develop solutions or products for a variety of audiences.	**5. TECHNOLOGY RESEARCH TOOLS** 1. Select and use appropriate tools and technology resources to gather information and collect data. 2. Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems.	**6. TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS** 1. Select and use appropriate tools and technology resources to solve problems and make decisions in a variety of contexts.

Technology Curriculum Standards and Indicators
Grades 9 – 12

1. BASIC OPERATIONS AND CONCEPTS 1. Make informed choices among technology systems, resources, and services. 2. Understand basic internal and external hardware devices, and system requirements. 3. Understand basic software programs and software operations.	**2. SOCIAL, ETHICAL, AND HUMAN ISSUES** 1. Identify capabilities and limitations of contemporary and emerging technology resources and assess the potential of these systems and services to address personal, lifelong learning, and workplace needs. 2. Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole. 3. Demonstrate and advocate for legal and ethical behaviors among peers, family, and community regarding the use of technology and information.	**3. TECHNOLOGY PRODUCTIVITY TOOLS** 1. Use technology tools and resources for managing personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence). 2. Investigate and apply expert systems, intelligent agents, and simulations in real-world situations.
4. TECHNOLOGY COMMUNICATION TOOLS 1. Use e-mail, Google Drive and other on-line resources to communicate information and collaborate with others. 2. Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works.	**5. TECHNOLOGY RESEARCH TOOLS** 1. Evaluate technology-based options, including distance and distributed education, for lifelong learning. 2. Routinely and efficiently use online information resources to meet needs for research, publications, communications, and productivity. 3. Select and apply technology tools for research and information analysis in content learning.	**6. TECHNOLOGY PROBLEM-SOLVING AND DECISION-MAKING TOOLS** 1. Routinely and efficiently use on-line information resources to make informed decisions and solve problems. 2. Select and apply technology tools for problem solving and decision making.

K-12 Technology Curriculum
Grade Level Guidelines
Grades K – 2

Fillmore Central
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K-12 Technology Curriculum
Grade Level Guidelines
Grades K – 2

1. BASIC OPERATIONS AND CONCEPTS

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

Indicator 1: Use input devices (e.g., mouse, keyboard) and output devices (e.g., monitor, printer) to successfully operate computers, touch devices, and other technologies.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Locate and use letters, numbers, and special keys on keyboard. 2. Place cursor at a specified location on the screen. 3. Open program from desktop. 4. Print (with teacher assistance). 5. Use mouse/trackpad correctly.	1. Locate and use letters, numbers, and special keys on keyboard, including shift key, delete key, caps lock, spacebar, enter, and volume keys. 2. Place cursor at a specified location on the screen. 3. Print (with teacher assistance). 4. Use mouse/trackpad correctly. 5. Identify and place fingers on home row position.	1. Locate and use letters, numbers, and special keys on keyboard, including shift key, delete key, caps lock, spacebar, enter, volume keys. 2. Place cursor at a specified location on the screen. 3. Print (with teacher assistance). 4. Use mouse/trackpad correctly. 5. Identify and place fingers on home row position.

Technology Standards
K – 2

1. BASIC OPERATIONS AND CONCEPTS

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

Indicator 2: Communicate about technology using developmentally appropriate and accurate terminology.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Communicate about technology using appropriate terminology: - printer - screen - desktop - mouse - cursor - icon - command/control - single click (mouse) - double click (mouse) -headphones/ear buds -touch device home, power, and volume buttons	1. Communicate about technology using appropriate terminology: - printer - screen - desktop - mouse - cursor - icon - command/control - single click (mouse) - double click (mouse) - highlight -headphones/ear buds -touch device home, power, and volume buttons	1. Communicate about technology using appropriate terminology: - printer - screen - desktop - mouse - cursor - icon - command/control - single click (mouse) - double click (mouse) - highlight -headphones/ear buds -touch device home, power, and volume buttons

Technology Standards
K – 2

2. SOCIAL, ETHICAL, AND HUMAN ISSUES

- Students understand the ethical, cultural, and societal issues related to technology.
- Students practice responsible use of technology systems, information, and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Indicator 1: Work cooperatively and collaboratively with peers and others when using technology in the classroom.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Take turns when working with a partner at a computer station.	1. Take turns when working with a partner at a computer station.	1. Take turns when working with a partner at a computer station.

Indicator 2: Practice responsible use of technology systems and software.

Grade Level Course
Students will:

Kindergarten	First Grade	Second Grade
1. Demonstrate proper handling of monitor (e.g., fingers off screen). 2. Use clean hands. 3. Handle keyboard (equipment) and mouse carefully. 4. Understand and comply with District's Acceptable Use Policy.	1. Demonstrate proper handling of monitor (e.g., fingers off screen). 2. Use clean hands. 3. Handle keyboard (equipment) and mouse carefully. 4. Understand and comply with District's Acceptable Use Policy.	1. Demonstrate proper handling of monitor (e.g., fingers off screen). 2. Use clean hands. 3. Handle keyboard (equipment) and mouse carefully. 4. Understand and comply with District's Acceptable Use Policy.

Technology Standards
K – 2

3. TECHNOLOGY PRODUCTIVITY TOOLS

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works.

Indicator 1: Use a variety of media and technology resources for directed and independent learning activities.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. User interactive software for drill and practice in various content areas. 2. Open programs from desktop.	1. User interactive software for drill and practice in various content areas. 2. Open programs from desktop.	1. User interactive software for drill and practice in various content areas. 2. Open programs from desktop. 3. Save program data using software (e.g. game software, practice software, save scores).

Technology Standards
K – 2

4. TECHNOLOGY COMMUNICATION TOOLS

- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Indicator 1: Use technology resources for communication and illustration of thoughts, ideas, and stories.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Type first and last name.	1. Type first and last name. 2. Type, edit, save, retrieve, and print simple sentences/stories. 3. Locate and insert a graphic in a word processing document.	1. Type first and last name. 2. Type, edit, save, retrieve, and print simple sentences/stories. 3. Locate and insert a graphic in a word processing document. 4. Compose, type, edit, save, retrieve, and print sentences. 5. Compose, type, edit, save, retrieve, and print simple paragraphs with tabs. 6. Use text and graphics to communicate information.

Technology Standards
K – 2

5. TECHNOLOGY RESEARCH TOOLS

- Students use technology to locate, evaluate, and collect information from a variety of sources.
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.

Indicator 1: Use technology resources to gather information.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Recognize different information sources (e.g., books, CD Rom, videotapes). 2. Locate and know the purpose of the library media center, computers, and other information sources in the school.	1. Recognize different information sources (e.g., books, CD Rom, videotapes). 2. Locate and know the purpose of the library media center, computers, and other information sources in the school. 3. Use the Internet through teacher-led projects.	1. Recognize different information sources (e.g., books, CD Rom, videotapes). 2. Locate and know the purpose of the library media center, computers, and other information sources in the school. 3. Use the Internet through teacher-led projects.

6. TECHNOLOGY PROBLEM SOLVING AND DECISION-MAKING TOOLS

- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies for solving problems in the real world.

Indicator 1: Use technology resources for problem solving.

Grade Level Course Guidelines
Students will:

Kindergarten	First Grade	Second Grade
1. Use interactive software or web-based programs to solve problems.	1. Use interactive software or web-based programs to solve problems. 2. Use calculators to solve problems.	1. Use interactive software or web-based programs to solve problems. 2. Use calculators to solve problems.

K-12 Technology Curriculum
Grade Level Guidelines
Grades 3 – 4

Fillmore Central
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Technology Standards
3 – 4

1. BASIC OPERATIONS AND CONCEPTS

- Students demonstrate a sound understanding of the nature and operation of technology systems.
- Students are proficient in the use of technology.

Indicator 1: Use keyboards and other common input and output devices (including adaptive devices when necessary) efficiently and effectively.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Demonstrate the proper handling of a USB memory key/CD. 2. Demonstrate appropriate conduct during technology work periods (e.g., on task, mouse use). 3. Demonstrate appropriate procedure for utilizing print options. 4. Demonstrate proper keyboarding techniques using a formal keyboarding program.	1. Demonstrate the proper handling of a USB memory key/CD. 2. Demonstrate appropriate conduct during technology work periods (e.g., on task, mouse use). 3. Demonstrate appropriate procedure for utilizing print options. 4. Demonstrate proper keyboarding techniques using a formal keyboarding program. 5. Demonstrate proper keyboarding skills whenever using a word processor.

Indicator 2: Students communicate about technology using developmentally appropriate and accurate terminology.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Use correct terminology when talking about software and hardware.	1. Use correct terminology when talking about software and hardware.

Technology Standards
3 – 4

2. SOCIAL, ETHICAL, AND HUMAN ISSUES

- Students understand the ethical, cultural, and societal issues related to technology.
- Students practice responsible use of technology systems, information, and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Indicator 1: Discuss common uses of technology in daily life and the advantages and disadvantages those uses provide.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
The following objectives will be taught in Social Studies and discussed in technology class. 1. Investigate how people invent new ways of doing things, new ways of solving problems, and new ways of getting work done. 2. Explore how new ideas and inventions affect people (e.g., improvements in transportation, health, sanitation, and communication). 3. Investigate how designing a solution may have constraints (e.g., cost, materials, time, space, safety).	The following objectives will be taught in Social Studies and discussed in technology class. 1. Describe how people continue to invent new ways of solving problems and getting work done. 2. Investigate how new ideas and inventions often affect people. 3. Explain how inventions have changed people's lives (e.g., television, electric lights).

Technology Standards
3 – 4

2. SOCIAL, ETHICAL, AND HUMAN ISSUES

- Students understand the ethical, cultural, and societal issues related to technology.
- Students practice responsible use of technology systems, information, and software.
- Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Indicator 2: Discuss basic issues related to responsible use of technology and information and describe personal consequences of inappropriate use.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Understand and comply with the District Acceptable Use policy. 2. Demonstrate appropriate conduct during technology work periods (e.g., do your own work).	1. Understand and comply with the District Acceptable Use policy. 2. Demonstrate appropriate conduct during technology work periods (e.g., do your own work). 3. Identify an individual's rights and resulting responsibilities as a technology user. 4. Understand a citizen's right to privacy.

Technology Standards
3 – 4

3. TECHNOLOGY PRODUCTIVITY TOOLS

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works.

Indicator 1: Use general-purpose productivity tools and peripherals to support personal productivity, remediate skill deficits, and facilitate learning throughout the curriculum.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Use appropriate grade level stimulation and problem solving software to strengthen or extend the understanding of subject area content. 2. Use problem solving and critical thinking software that provokes inquiry, engages and challenges young minds, and builds reasoning skills.	1. Use appropriate grade level stimulation and problem solving software to strengthen or extend the understanding of subject area content. 2. Use problem solving and critical thinking software that provokes inquiry, engages and challenges young minds, and builds reasoning skills.

Technology Standards
3 – 4

3. TECHNOLOGY PRODUCTIVITY TOOLS

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works

Indicator 2. Use technology tools (e.g., multimedia authoring, presentation, Web tools, digital cameras, scanners) for individual and collaborative writing, communication, and publishing activities to produce products for a variety of audiences.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Use various types of technology for sharing, revising, and editing written work. 2. Demonstrate the proper retrieval and saving of a word processing file. 3. Use presentation software to create projects, presentations, or reports.	1. Use various types of technology for sharing, revising, and editing written work. 2. Demonstrate the proper retrieval and saving of a word processing file. 3. Use presentation software to create projects, presentations, or reports. 4. Use multimedia equipment such as scanners and digital cameras.

Technology Standards
3 - 4

4. TECHNOLOGY COMMUNICATION TOOLS

- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Indicator 1: Use technology resources for communication and illustration of thoughts, ideas, and stories.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Type, edit, save, retrieve, and print simple sentences/stories. 2. Locate and insert a graphic in a word processing document. 3. Compose, type, edit, save, retrieve, and print sentences. 4. Compose, type, edit, save, retrieve, and print simple paragraphs with tabs. 5. Use text and graphics to communicate information	1. Type, edit, save, retrieve, and print simple sentences/stories. 2. Locate and insert a graphic in a word processing document. 3. Compose, type, edit, save, retrieve, and print sentences. 4. Compose, type, edit, save, retrieve, and print simple paragraphs with tabs. 5. Use text and graphics to communicate information

Technology Standards
3 – 4

4. TECHNOLOGY COMMUNICATION TOOLS

- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Indicator 2: Use telecommunications effectively and efficiently to access remote information; communicate with others in support of direct and independent learning.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Navigate through teacher selected Internet sites. 2. Understand and use Internet netiquette.	1. Understand and use Internet search engines to conduct curriculum-related searches. 2. Understand and use Internet netiquette.

Technology Standards
3 – 4

5. TECHNOLOGY RESEARCH TOOLS

- Students use technology to locate, evaluate, and collect information from a variety of sources.
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness to specific tasks.

Indicator 1: Use technology resources (e.g., calculators, data collection probes, videos, educational software) to access information for self-directed learning and extended learning activities.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Use reference tools to locate information (e.g., dictionaries, maps, and globes, encyclopedias, periodicals, and Internet). 2. Use library databases.	1. Use reference tools to retrieve and manage information (e.g., interactive software, CD-Rom, video materials, Internet). 2. Use library databases.

Technology Standards
3 – 4

6. TECHNOLOGY PROBLEM SOLVING AND DECISION-MAKING TOOLS

- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies for solving problems in the real world.

Indicator 1: Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. Select appropriate technology tools. 2. Use calculators to solve problems.	1. Select appropriate technology tools. 2. Use calculators to solve problems.

Indicator 2: Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.

Grade Level Course Guidelines
Students will:

Third Grade	Fourth Grade
1. 1. Identify false or misleading information in oral and electronic presentations (taught by classroom teacher, media specialist, and/or technology coordinator.)	2. 1. Identify false or misleading information in oral and electronic presentations (taught by classroom teacher, media specialist, and/or technology coordinator.)

K-12 Technology Curriculum
Grade Level Guidelines
Grades 5 – 8

Fillmore Central
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Technology Standards
Grades 5 – 8

1. **BASIC OPERATIONS AND CONCEPTS**
    - Students demonstrate a sound understanding of the nature and operation of technology systems
    - Students are proficient in the use of technology

Indicator 1: Apply strategies for identify and solving routine hardware and software problems that occur during everyday use.

Grade Level Course Guidelines:

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Reboot and restart a computer and select a printer. 2. Properly save and print - identify operation system to locate the icon or folder needed to save and retrieve data. 3. Check printing options. Check job status in print queue. 4. Use proper keyboarding skills and techniques. 5. Demonstrate proper keyboarding techniques using a variety of keyboarding activities. 6. Using folders and cloud based storage.	1. Reboot and restart a computer and select a printer. 2. Properly save and print - identify operation system to locate the icon or folder needed to save and retrieve data 3. Check printing options. Check job status in print queue. 4. Use proper keyboarding skills and techniques. 5. Demonstrate proper keyboarding techniques using a variety of keyboarding activities. 6. Using folders and cloud based storage.	1. Reboot and restart a computer and select a printer. 2. Properly save and print - identify operation system to locate the icon or folder needed to save and retrieve data. 3. Check printing options. Check job status in print queue. 4. Use proper keyboarding skills and techniques 5. Use folders and cloud based storage.

Technology Standards
Grades 5 – 8

1. **BASIC OPERATIONS AND CONCEPTS**
    - Students demonstrate a sound understanding of the nature and operation of technology systems
    - Students are proficient in the use of technology

Indicator 2: Demonstrate an understanding of concepts underlying hardware, software, and connectivity.

Grade Level Course Guidelines:

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Logon/logoff to network and/or computer. 2. Access software. 3. Access network to save or retrieve work. 4. Use folders and cloud based storage.	1. Logon/logoff to network and/or computer. 2. Access software. 3. Access network to save or retrieve work. 4. Use folders and cloud based storage.	1. Logon/logoff to network and/or computer. 2. Access software. 3. Access network to save or retrieve work. 4. Use folders and cloud based storage.

Technology Standards
Grades 5 – 8

2. **SOCIAL, ETHICAL, AND HUMAN ISSUES**
   - Students understand the ethical, cultural, and societal issues related to technology.
   - Students practice responsible use of technology systems, information, and software.
   - Students develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits, and productivity.

Indicator 1: Demonstrate knowledge of current changes in information technologies and the effect those changes have on the workplace and society.

Grade Level Course Guidelines:

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Explore the pros and cons of technology use (e.g., identity theft, internet abuse). 2. Cyber bullying.	1. Explore the pros and cons of technology use (e.g., identity theft, internet abuse). 2. Cyber bullying.	1. Explore the pros and cons of technology use (e.g., identity theft, internet abuse). 2. Cyber bullying.

Technology Standards
Grades 5 – 8

Indicator 2: Exhibit legal and ethical behaviors when using information and technology, and discuss consequences of misuse.

Grade Level Course Guidelines:
Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Discuss and review copyright laws. 2. Use appropriate citations when using documented materials. 3. Understand and comply with the District Acceptable Use Policy.	1. Discuss and review copyright laws. 2. Use appropriate citations when using documented materials. 3. Understand and comply with the District Acceptable Use Policy.	1. Discuss and review copyright laws. 2. Use appropriate citations when using documented materials. 3. Understand and comply with the District Acceptable Use Policy.

Technology Standards
Grades 5 – 8

3. TECHINICAL PRODUCTIVITY TOOLS

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works.

Indicator 1: Use content-specific tools, software, and simulations (e.g. environmental probes, graphing calculators, Web tools) to support learning and research.

Grade Level Course Guidelines:

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1) Select and use a variety of software applications, e.g., a) Keyboarding Online b) Word Processing program. c) Presentation software 2) Use a word processing program to format documents.	1) Select and use a variety of software application, e.g., a) MS Office Suite b) Google 2) Use a word processing program to format documents.	1) Select and use a variety of software application, e.g., a) MS Office Suite b) Google 2) Use a word processing program to format documents 3) Use software application to create multimedia projects (e.g. podcasts, iMovie, etc.)

Technology Standards
Grades 5 – 8

3. TECHINCICAL PRODUCTIVITY TOOLS

- Students use technology tools to enhance learning, increase productivity, and promote creativity.
- Students use productivity tools to collaborate in constructing technology-enhanced models, preparing publications, and producing other creative works.

Indicator 2: Apply productivity and multimedia tools to support personal productivity, group collaboration, and learning throughout the curriculum.

Grade Level Course Guidelines:

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Insert pictures and graphics into a word processing document.	1. Insert pictures and graphics into a word processing document. 2. Develop and create a multimedia presentation. 3. Insert digital images and graphics into a multimedia presentation.	1. Insert pictures and graphics into a word processing document. 2. Develop and create a multimedia presentation. 3. Insert digital images and graphics into a multimedia presentation.

Technology Standards
Grades 5 – 8

4. TECHNOLOGY COMMUNICATION TOOLS

- Students use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences.
- Students use a variety of media and formats to communicate information and ideas effectively to multiple audiences.

Indicator 1: Design, develop, publish, and present products using technology resources that demonstrate and communicate curriculum concepts to a variety of audiences.

Indicator 2: Collaborate with peers, experts, and others using telecommunications and collaborative tools to investigate problems/issues, and gather information, and develop solutions or products for a variety of audiences.

Grade Level Course Guidelines

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1) Exchange information/products through e-mail attachments.	1. Exchange information/products through e-mail attachments.	1. Exchange information/products through e-mail attachments.
2) Use available technology in editing and revision.	2. Use available technology in editing and revision.	2. Use available technology in editing and revision.
3) Use technology to share written work with others.	3. Use technology to share written work with others.	3. Use technology to share written work with others.
4) Select resources to support personal interpretations of information.	**4.** Select resources to support personal interpretations of information.	**4.** Select resources to support personal interpretations of information.

Technology Standards
Grades 5 – 8

5. TECHNOLOGY RESEARCH TOOLS

- Students use technology to locate, evaluate, and collect information from a variety of sources.
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness to specific task.

Indicator 1: Select and use appropriate tools and technology resources to gather information and collect data.

Grade Level Course Guidelines

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Search and locate online information. 2. Use library databases.	1. Search and locate online information. 2. Use library databases.	3. Search and locate online information. 4. Use library databases.

Technology Standards
Grades 5 – 8

5. TECHNOLOGY RESEARCH TOOLS

- Students use technology to locate, evaluate, and collect information from a variety of sources
- Students use technology tools to process data and report results.
- Students evaluate and select new information resources and technological innovations based on the appropriateness to specific task.

Indicator 2: Research and evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources concerning real-world problems.

Grade Level Course Guidelines

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Determine the accuracy of online resources (taught by classroom teacher, media specialist, and/or technology coordinator.)	1. Determine the accuracy of online resources (e.g Wiikpedia, etc.)	1. Determine the accuracy of online resources (e.g Wiikpedia, etc.)

Technology Standards
Grades 5 – 8

6. TECHNOLOGY PROBLEM SOLVING AND DECISION-MAKING TOOLS

- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies of solving problems in the real world.

Indicator 1: Select and use appropriate tools and technology resources to solve problems and make decisions in a variety of contexts.

Grade Level Course Guidelines

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Create various projects using a variety of appropriate technologies (classroom projects led by classroom teacher.) 2. Make decisions about how to research data and display the findings (classroom displays led by classroom teacher.)	1. Create various projects using a variety of appropriate technologies (classroom projects also led by classroom teacher.) 2. Make decisions about how to research data and display the findings (classroom displays also led by classroom teacher.)	1. Create various projects using a variety of appropriate technologies (classroom projects also led by classroom teacher.) 2. Make decisions about how to research data and display the findings (classroom displays also led by classroom teacher.)

Technology Standards
Grades 5 – 8

6. TECHNOLOGY PROBLEM SOLVING AND DECISION-MAKING TOOLS

- Students use technology resources for solving problems and making informed decisions.
- Students employ technology in the development of strategies of solving problems in the real world.

Indicator 2: Evaluate the accuracy, relevance, appropriateness, comprehensiveness, and bias of electronic information sources.

Grade Level Course Guidelines

Students will:

Fifth & Sixth Grade	Seventh Grade	Eighth Grade
1. Identify false or misleading information in oral and electronic presentations (led by classroom teacher.)	1. Identify false or misleading information in oral and electronic presentations	1. Identify false or misleading information in oral and electronic presentations.

Fillmore Central Public Schools
K-12 Technology Curriculum
Course Maps
Grades 9 – 12

Fillmore Central
Home of the

Digital Media – Yearbook/Journalism
Elective
Year Long Course

This class is designed for students to learn all about journalism and creative writing. This class focuses on these aspects to create the 7-12 grade yearbook using a digital platform. These students will have a working knowledge of caption writing, creative writing, picture taking, digital design through Photoshop and other pieces of software, and the business side of running a yearbook. The major piece to this class is working in the Walsworth Online Design website to make a memory to remember.

The learner will be responsible for:

- Taking pictures for school events
- Caption writing
- Theme writing
- Creative writing
- Online design
- Photoshop skills
- Journalism
- Selling Advertisements to Businesses
- Yearbook sales

Digital Media – Coding
Elective
Year Long Course

This class will provide students with the foundations of creating valid, structured, and visually appealing web pages and websites. Students will learn the HTML and CSS coding languages and how to apply those languages with coding practices to create their files. Laptops will be used daily in this course. Due to the nature of the course, students will be uploading files to the Internet that can be accessed by anyone. Mr. Kaye-Skinner owns the domain used for this, not the school, so it is protected.

The learner will be responsible for:

- Chapter summaries
- Chapter projects and quizzes
- Unit tests and projects
- Final project
- HTML coding language
- CSS coding language
- Webpage and website creation
- Webpage and website editing